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A 4-week Research Training Institute for personnel of State departments of education interested in improving their research competence was conducted at the University of Wisconsin in 1967. The institute was divided into two separate 2-week sessions which were intended to improve research knowledge and skills and to stimulate research interests. This report contains information concerning the participants in the institute, a description of the program of instruction and activities, and an evaluation of the institute. The program consisted of group instruction emphasizing lecture and discussion methods, small-group laboratory activity, and firsthand experience with data processing equipment. Thirty-four trainees from various geographical areas participated in the institute. The major topics of instruction were measurement and statistics, research design and methodology, data processing in educational research, and research administration. Following the institute, evaluation questionnaires were completed by the participants. The results of these questionnaires showed that (1) the objectives of the institute were appropriate, (2) insufficient emphasis was placed on research design, (3) guest lecturers were of value, (4) the program was too short, and (5) the institute was of very good quality. (HW)

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FINAL REPORT

Grant No. OEG-3-7-070602-2979-24 27

Research Training Institute For Personnel of State Departments of Education

October 15, 1967

U.S. Department of
Health, Education, and Welfare

Office of Education
Bureau of Research

EA C01 943

RESEARCH TRAINING INSTITUTE FOR PERSONNEL OF STATE DEPARTMENTS OF EDUCATION

Grant No. OEG-3-7-070602-2979

Russell T. Gregg
Program Director

March 13-24 and May 8-19, 1967

The training program reported herein was conducted pursuant to a grant from the Office of Education, U. S. Department of Health, Education, and Welfare. Grantees undertaking such projects under Government sponsorship are encouraged to express freely their professional judgment of the conduct of the project. Points of view or opinions stated do not, therefore, necessarily represent official Office of Education position or policy.

Department of Educational Administration
University of Wisconsin
Madison, Wisconsin

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION

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Orientation of Program

A four-week Research Training Institute for personnel of state departments of education was conducted at the University of Wisconsin by the Department of Educational Administration during the spring of 1967. The four-week institute was divided into two sessions which were scheduled during March and May, 1967. The Institute was funded under P. L. 83-531, Section 2 (b) as amended by P. L. 89-10, Title IV. This report includes information concerning the participants in the Institute, a description of the program of instruction and activities carried on, and an evaluation of the Institute.

Type of Program

The Research Training Institute was planned to provide an in-service educational program for personnel of state departments of education interested in improving their research competence. The major purpose of the Institute was to improve the research knowledge and skills, and to stimulate the research interests of these persons. The Institute program consisted of group instruction which emphasized both lecture and discussion methods, small-group laboratory activity, and first-hand experience with data processing equipment at the University Computer Center.

Inclusive Dates of Instruction

The Research Training Institute, although planned as a four-week program, was offered in two, two-week sessions, the two sessions being separated by a period of six weeks. This type of scheduling was employed in order that trainees could be at their jobs for a period of six weeks between the two sessions of the Institute. The first session of the Institute was held March 13-26, 1967, and the second session was held May 8-19, 1967. It was hoped that all trainees would attend both sessions, but this did not prove to be true for all trainees. Twenty-six of them attended both sessions of the Institute, four trainees attended only the first session, and six attended only the second session.

Size and Nature of the Trainee Group

Forty persons indicated their intention of attending one or more of the sessions of the Research Training Institute. For one reason or another, however, six of these persons did not find it possible to attend either session of the Institute. Twenty-eight trainees attended the first session and 30 attended the second session. Thirty-two of the thirty-four trainees were men and two were women. The

thirty-four participants represented thirteen state departments of education as follows: Georgia (3), Illinois (2), Iowa (4), Kentucky (3), New Hampshire (1), New Jersey (2), North Carolina (2), Ohio (2), Pennsylvania (3), South Carolina (3), South Dakota (1), Tennessee (1), and Wisconsin (7). The recruitment of state department of education personnel to participate in the Institute was handled by personnel in the United States Office of Education. The director of the Institute played no part in the recruitment of participants except that he obtained permission to permit additional personnel from the State Department of Education in Wisconsin to participate in the Institute.

Trainees ranged in age from 27 to 61 years. The median age was 41 years. There was a very wide range of position titles reported by the trainees. The most commonly held position title was that of consultant (supervisor) in some phase (area) of curriculum and instruction. Other titles included those of director of information systems (computer services), director of statistical services (or of testing), director of research, coordinator of measurement and evaluation, and coordinator of Title I. Nineteen of the trainees indicated that they were either doing, or responsible for supervising, research at the present time while the remainder indicated that they had no such responsibilities.

Of the thirty-four trainees, three held only the bachelor's degree, twenty-four held the master's degree (fourteen of these had had graduate work beyond the master's degree), and seven held a doctor's degree. Trainees were asked to indicate whether they had taken graduate-level courses in statistics, tests and measurements, research design, data processing, and research administration. About half of the trainees had taken graduate courses in statistics, test and measurements, and research design while about half of them had had no graduate instruction in these three course areas. Only four of the thirty-four trainees had taken a graduate level course in data processing and only nine had had a course in research administration. Twenty-three trainees had taken one or more graduate-level courses in educational administration.

Program Objectives

The general purpose of the Research Training Institute was to provide an opportunity for practitioners in state departments of education to develop further their knowledge, skills, and interests relating to research in education. More specifically the objectives of the institute were: (1) to develop the research knowledge and skills of the trainees attending the Institute, (2) to stimulate their interest in educational research, and (3) to provide information about recent developments in educational research with special reference to computer technology. Two important aspects of the broad

field of educational research were emphasized in each session of the Institute. Measurement in educational research and research design and methodology were stressed during the first session while in the second session stress was placed upon automatic data processing and research administration, including research proposal development. The Institute's staff consisted of the director and four instructors who were specialists in one or the other of these units of instruction. Each of the instructors spent full time with the trainees in the Institute during one of the two-week sessions.

Description of the Program

Originally, the Research Training Institute was planned for members of state departments of education of approximately ten midwestern states. As it turned out, however, the trainees came from midwestern states, eastern states, and southern states, as previously indicated in this report. It was believed that there were several reasons for emphasizing the regional approach for research training of personnel of state departments of education. Among these were: (1) trainees would come from geographical areas characterized by different points of view and activities relating to educational research, (2) such a program would foster cross-fertilization of innovative practices and research concepts, (3) trainees would be stimulated to serious study because of their association with colleagues representing other states, and (4) the regional program would make it necessary for the trainees to go long distances from their places of work and as a result the trainees could be housed together during the Institute.

First Two-Week Session

The Institute was planned to cover a period of four weeks but was to be conducted in two two-week sessions so that trainees could return to their jobs for a period of six weeks between the two sessions. It was planned that during the first two-week session (March 13-24, 1967) the two major topics of (1) measurement and statistics and (2) research design and methodology would be treated, using approximately one week for each of these topics. Actually, since the trainees expressed a desire for such a plan, emphasis during the first session was placed upon educational statistics and how the various statistical procedures were related to educational research design and methodology. Since both of the instructors for the first session (Drs. Greene and Katzenmeyer) were exceptionally well qualified in both educational statistics and research design and methodology, it was decided not to divide the group of 28 trainees

for instructional purposes. Again, this decision was made in accordance with the desires of the trainees and with due recognition of the fact that there was a wide variation among the trainees with respect to their knowledge of the topics to be covered.

Original plans called for the mornings to be divided into two 75 minute periods, separated by a 30 minute coffee break, and that one of the two topics would be presented during the first period and that the other would be presented during the second period. Instead, however, both the instructors and the trainees concluded that it was advisable to present the topics of educational statistics and research design and methodology simultaneously and in relationship to each other. Consequently, all morning sessions were conducted as seminars with all of the trainees participating. One of the instructors would open the period with a formal presentation, usually lasting from thirty to forty minutes, followed by discussion in which both of the instructors and the participants participated. During most of the first week of the first session the afternoons were scheduled in a similar way as those in the mornings. During the latter part of the session, the trainees were encouraged to organize into groups for purposes of discussing research proposals, research design, appropriate statistics, and other related topics. The Institute staff members participated in these discussions.

Content given consideration during the first week of the first session of the Institute included: nature and purpose of statistics; descriptive and inferential statistics; frequency distributions; grouped and ungrouped data; class intervals; percentiles, deciles, and quartiles; measures of central tendency; measures of dispersion; quartile deviation and standard deviation; normal curve; standard scores; levels of measurement; and rank order and product movement correlations. During the second week the following topics were emphasized: probability, samples and populations, tests of significance, differences between means, differences between proportions, X^2, analysis of variance, and analysis of co-variance.

On two afternoons of each week special lectures, followed by discussion, were scheduled from 3:00 p.m. until 4:30 p.m. The persons presenting the lectures and their topics were: Dr. Herbert J. Klausmeier, Director, Research and Development Center for Cognitive Learning, "Purposes, Programs, and Research of the R & D Center"; Dr. Robert Classen, Associate Director, Laboratory for Instructional Research, "Research Activities of the Laboratory for Instructional Research"; Dr. J. Kenneth Little, Co-Director, Center for Studies in Vocational and Technical Education, "Programs and Activities of the Center for Studies in Vocational and Technical Education"; and Mr. Gerald F. McVey, Director, Multimedia Instructional Laboratory, "Demonstration of the Facilities of the Multimedia Instructional Laboratory".

Second Two-Week Session

The second session of the Institute (May 8-19, 1967) was organized in a similar manner as was the first session. The two major topics of instruction for this session were (1) data processing in educational research and (2) research administration. The plan of instruction was similar to that described for the first session, except that considerably more emphasis was placed upon actual laboratory experience during the second session. Most of this laboratory experience was provided at the University Computer Center but some of it was small group work on the development of research proposals.

Instruction in the two major topics of data processing and research administration were closely integrated. For example, the usefulness of a PERT program for the control of a data processing project was demonstrated. Also, a number of the statistical concepts and procedures taken up during the first session of the Institute were related to computer programming. Not only were each of the kinds of unit record equipment at the Computer Center demonstrated but each of the trainees had experience in using the equipment in relation to a problem which he was solving. The instructional unit on data processing in educational research included the following topics: History of the evolution of data processing, unit record equipment and the computer, computer applications to educational administration and research, and computer programming, with emphasis on Fortran. Research administration topics dealt with included: development of research proposals; systems theory, its nature and procedures; inputs; system transformations; system control, outputs, and feedback; application of system theory; PERT as a management tool; input and output measures in education; and relationships of outputs to inputs in education (cost-benefit analysis).

As was the case during the first session of the Institute, four special lectures followed by the discussions, were scheduled on four different days from 3:00 p.m. to 4:30 p.m. Speakers and their topics were: Dr. Max R. Goodson, Co-Director, Research and Development Center for Cognitive Learning, "Roles of Research and Development Centers, Regional Laboratories, Public School Systems and State Departments of Education in Educational Change"; Dr. John Guy Fowlkes, Director, Wisconsin School Improvement Program, "The Improvement of Public Schools and Teacher Education in Wisconsin"; William A. Kahl, Wisconsin State Superintendent of Public Instruction, "Role of State Departments for Research and Leadership in Education"; and Dr. Vernon F. Haubrich, Co-Director, Institute for Research on Poverty, "Research Pertaining to Education of Disadvantaged Children and Youth".

Evaluation of the Program

At the end of each of the two-week sessions of the Institute the trainees were requested to react anonymously to a detailed evaluation questionnaire. The results of this evaluation by the trainees are reported in detail in Appendix D.

Program Factors

It was the judgment of both trainees and staff members that the major objectives of the institute definitely were appropriate ones. It was found, however, that the objectives as set forth in the proposal were too broad and comprehensive to be achieved in the short period of time during which the trainees attended the Institute. Consequently, it became necessary for the instructors to determine what content should be treated and what should be omitted. Because of the varied backgrounds of the trainees this procedure could not prove satisfactory to all participants. The evaluation questionnaires revealed that some trainees felt that important content which should have been covered was not covered, while others felt that time was devoted to content which was already somewhat familiar to them. In retrospect, however, both the staff members and the trainees felt that appropriate objectives had been set for the Institute and that these objectives had been achieved to a very satisfactory degree.

A considerable number of the trainees believed that insufficient emphasis had been placed upon research design during the first session of the Institute. This was probably true because of the decision to place the emphasis upon statistics and their application to research problems. It was true, however, that in the discussion of the various statistical procedures constant reference was made to their applicability and use in various research designs. Perhaps dividing of the trainees into two separate groups for instructional purposes would have been desirable; however, when this probability was explored with the participants early in the Institute it was their feeling that they would rather proceed as a single group even though it was obvious that there was a wide range of differences in their educational and experience backgrounds as these related to the proposed areas of instruction.

During each of the two-week sessions, four presentations of one and one-half hours each were conducted by outside resource people relating to carefully selected topics. At each of these meetings there was a formal presentation followed by a fairly

lengthy period of discussion. The evaluation results indicated that the trainees felt that this aspect of the program was of much value. All trainees appeared to be highly pleased with the opportunity to have a considerable amount of experience with the data processing equipment in the University Computer Center.

There was no selection of trainees for participation in the Institute. All persons employed by state departments of education who expressed an interest in attending the Institute did so. The responsibility for recruitment (and selection) of trainees for the Institute was assumed by the United States Office of Education and therefore the program director was unable to participate in this activity. Trainees came from a very large geographical area extending from North Dakota to Georgia but this geographical distribution of the trainees presented no problems. The fact that the trainees came from distant geographical points was an advantage in that it was necessary for them to be housed in close proximity to the instructional center. The size of the group of trainees was satisfactory. There were 28 trainees enrolled in the first session and 30 enrolled in the second session of the Institute.

From one point of view the timing and the length of the Institute program appeared to be quite appropriate while from another point of view the length of the program was too short. Considering the nature of the trainees and the types of positions which they held, scheduling the institute during the spring months for four weeks in two sessions separated by six-week period of time, seemed to suit the needs and responsibilities of the trainees very well. There is no doubt, however, that the four-week period of instruction was entirely too short a period to accomplish well all of the purposes originally proposed. The responses obtained from trainees on the evaluation questionnaires did indicate that the Institute as a whole, and particularly the organized instructional program, was of very good quality. The daily schedule of instruction proved to be a satisfactory and workable one and the facilities which were available, particularly the classroom and laboratory facilities, were outstandingly good.

The budget for the Institute proved to be entirely satisfactory when considered in terms of the plans which originally were proposed for it. The budget requested in the proposal did not carry an item for use of the computer facilities at the University. Subsequent planning indicated the high desirability of providing trainees with experience with computer facilities and a request was made to transfer grant funds which were to be used for teaching assistants to charges for the use of computer facilities. As a result, no teaching assistants were employed and this put an additional burden upon the instructional staff members, particularly with regard to small group and individual instruction.

Provisions should have been made in the budget for teaching assistants and, also, a considerable amount of money should have been allotted for rental of computer equipment.

Strengths of the Institute Program

According to the judgments of both the trainees and the staff, strength of the Institute program were (1) quality of instruction, (2) outstanding classroom and computer center facilities, and (3) good housing arrangements which permitted free, informal exchange of ideas among trainees. Many of the trainees, both in conversations with the program director and by their reactions to the evaluation questionnaires, commented upon the excellent quality of instruction by the staff members of the Institute. Many of them took occasion to point out the fine team work exhibited by the two instructors for each of the sessions and also their willingness to spend a complete day, from 8:30 in the morning until 4:30 in the afternoon (and sometimes in the evenings), working in the Institute program. Trainees were high in their praise of the carefully selected special guest lecturers who appeared before the group four times during each of the two-week sessions between 3:00 and 4:30 in the afternoons. Another special feature of the Institute which was referred to by practically all trainees was the outstanding features of the University Computer Center and the fact that each trainee was privileged to make use of the equipment in this center. A few trainees complained about the distance (about ½ mile) between the Computer Center Building and the Wisconsin Center Building in which the formal instruction was conducted.

The relationships of the program director with the U.S. Office of Education and with persons and organizations at the University of Wisconsin in the administration of the Institute program were very satisfactory. Excellent cooperation was obtained from every source contacted. The cooperation and assistance extended by Dr. John D. Colby of the U.S. Office of Education were especially helpful and appreciated.

There were several weaknesses or difficulties with respect to the Institute which were relatively easily observable. First and foremost among these was the very wide variation of educational and experience backgrounds of the trainees in relation to the purposes and program of the Research Training Institute. For example, three or four of the trainees were quite sophisticated with respect to data processing, a considerable number had some elementary knowledge concerning this subject, while a similar number had no knowledge of it whatsoever. Almost the same comment could be made about the differences among the trainees with respect to their

knowledge of statistics and research design. Probably one reason for this situation was that the host institution (and the program director) had no opportunity to participate in the recruitment and selection of personnel who would attend the sessions of the Institute. Information which the program director obtained relative to the procedures, information, and forms which were used by the U.S. Office of Education for the recruitment of trainees indicated that they were inadequate in terms of the importance of the job to be done. Also, reports by trainees indicate that there was poor communication in many state departments of education between the chief state school officer and the persons whom he nominated to the U.S. Office of Education to participate in the Institute. The program director had several long distance calls from prospective trainees soon after they had been notified by the U.S. Office of Education that they had been selected to attend the Institute. In these telephone conversations they indicated that they had received a communication from the U.S. Office of Education indicating that they had been selected to attend the Research Training Institute at the University of Wisconsin. They had questions such as: "Who selected me and why was I selected?", "What is the nature of the institute to be conducted?", and "Who is to pay the expenses which I will have for travel and for room and board while in Madison?" A few trainees complained about the dormitory situation in which they were housed. They agreed that the facilities which the relatively new dormitory provided were excellent but they felt that some of the rules and regulations of the dormitory, which were in effect for undergraduates living in the dormitory, were somewhat restrictive upon them as adults; however, most participants did not consider this to be a problem of any consequence and indicated that they believed that it was a good idea to house participants together in a dormitory which offered good facilities. It is of some interest to note that the same number of participants (all but a half-dozen trainees) lived in the dormitory during the second session of the Institute as during the first session.

Persons planning this type of institute should take care not to attempt to do in a period of four weeks that which can be done in only a semester or more. The four-week schedule of the Institute was much too short a time to achieve the instructional goals, set forth in the proposal, to a satisfactory degree, even though the trainees certainly constituted a group with above average general competence and educational background.

There is overwhelming evidence that both trainees and staff members were of the opinion that the research training institute was one of very good quality. The trainees lauded the quality of the instruction, the classroom and laboratory facilities, the administration of the institute, and even the dormitory facilities.

This evidence was in the form of statements by practically all of the trainees to various staff members and also in the nature of the responses to the items of the evaluation questionnaires (see Appendix D). This favorable evaluation was made of the Institute by trainees and staff members, even though difficulties such as wide individual differences among trainees, lack of time to cover thoroughly all of the topics in which the trainees were interested, etc., were evident. The trainees were very nearly unanimous in their approval of scheduling the four-week Institute in two sessions separated by a period of several weeks. They indicated that they found it possible to leave their jobs for a period of two weeks at two different times during the spring months but would have found it very difficult, if not impossible, to have left their positions for a continuous four-week period of time.

The U.S. Office of Education determined the topics to be covered in the Research Training Institute and also took on the responsibility of recruiting (and selecting) the trainees who were to attend the Institute. The Institute's staff questions the desirability of this procedure as it was actually implemented. It would be appropriate for the U.S. Office of Education to outline certain areas of emphasis for a research training Institute from which selections of topics and content could be made in terms of the backgrounds and interests of the trainees. As experience proved, this actually had to be done, because both trainees and staff members recognized that all of the areas of instruction suggested by the U.S. Office of Education could not be handled adequately during the limited time available for the Institute program. The Institute staff members, and particularly the program director, believe that experience has indicated that it is not desirable for personnel of the U.S. Office of Education to recruit and select trainees for an Institute to be conducted by a university. It is believed that these responsibilities should be delegated to the program director who, of course, should be accountable for performing these responsibilities in a satisfactory manner. The program director believes that the information concerning the program, the nature of the forms used, and other aspects of the communication process between the U.S. Office of Education and the state departments of education were not of a nature to insure a good job of recruiting (and selecting) trainees for a research training institute.

Program Reports

1. Publicity. The research training institutes were publicized by the United States Office of Education. As far as the writer is aware, only one two-page memorandum was mailed to chief state school officers by Dr. E. Glenn Featherston, Acting Director, Division of State Agency Cooperation. The memorandum contained a very brief listing of the content of the institutes, indicating that institutes would be held

at the Universities of Denver, Maryland, and Wisconsin, indicated that the institutes were to be of four-week duration but separated into two two-week periods, requested the chief state school officers to nominate up to three persons to participate in the institutes, and stated that there would be travel and per diem allowances for participants.

After the present program director received a list of names of persons who were expected to participate in the Institute to be conducted at the University of Wisconsin, letters were written to each of these persons by him and with these letters was included information concerning the Institute. Copies of these statements of information are to be found in Appendix A of this report. In addition to the letter and the statements of information concerning the Institute which were mailed to each of the prospective participants, a considerable amount of correspondence was had with a number of the persons who planned to attend the Institute. It is the opinion of the program director that all persons who attended the institute received complete information as to the nature of the institute, together with information regarding housing, payment of travel and per diem allowances, parking arrangements, and other types of information of interest to prospective participants before they left their respective state departments of education to attend the Institute.

2. Application Summary

Note: Applications (recruitment) was handled by the U.S. Office of Education.

3. Trainee Summary

a. Number of trainees initially accepted in program	40
Number of trainees enrolled at the beginning of the first two-week session of program	28
Number of trainees who completed first two-week program	28
Number of trainees enrolled at the beginning of the second two-week session of program	30
Number of trainees who completed second two-week program	30
Total number of different persons enrolled in program	34
b. Categorization of trainees	
(1) Number of trainees who principally are elementary or secondary public school teachers	0
(2) Number of trainees who are principally local public school administrators or supervisors	0
(3) Number of trainees from State education departments	34
(4) Number of trainees from colleges or universities, junior colleges, research bureaus, etc.	0

4. Program Director's Attendance

a. What was the number of instructional days for the program? 20

b. What was the percent of days the director was present? 95

Financial Summary

	Budgeted	Expended or Committed
a. Trainee Support		
(1) Stipends (Per Diem)	$14,560	$11,536
(2) Dependency Allowance	none	none
(3) Travel	6,500	4,673
b. Direct Costs		
(1) Personnel	12,096	11,085
(2) Supplies	24	none
(3) Equipment	100	none
(4) Travel	none	none
(5) Other	none	359
c. Indirect Costs	2,662	2,662
TOTAL	$35,942	$30,315

APPENDIX A

Information Statements Concerning the Research Training Institute

INFORMATION FOR PARTICIPANTS IN THE RESEARCH TRAINING INSTITUTE (University of Wisconsin)

The Research Training Institute is a four-week training program offered in two, two-week sections in order to enable participants to return to their jobs for a period of six weeks between the two sections. The first section will be held March 13 - 24, and the second section May 8 - 19, 1967. In general, the program will run from 8:30 in the morning to about 4 o'clock in the afternoon each day. Also a few special programs will be scheduled during the evening hours.

The major purpose of the Research Training Institute is to improve research knowledge and skills and to stimulate research interests on the part of selected personnel of state departments of education. Today, it is imperative that the leadership activity of state department personnel be oriented increasingly to educational evaluation and research. Consequently, the Institute will emphasize (1) measurement in educational research and (2) research design and methodology during the first section and (3) automatic data processing and (4) research administration during the second section. Group instruction will be stressed in the mornings and individual and small-group laboratory work in the afternoons. In the laboratory sessions, participants will be encouraged and assisted to apply research concepts and procedures to the on-the-job problems with which they deal in their work as consultants and researchers in state departments of education.

During the first two-week section of the Institute (March 13 - 24) the topics of Measurement in Educational Research and Research Design and Methodology will be treated. Sub-topics will be: The Nature and Purposes of Measurement, Standardized Tests (validity and reliability), Statistical Concepts in Measurement, Making Educational Inferences from Data, Problem Solving and Measurement, Principles of Research Design and Methodology, Methods of Data Collection, Sampling and Sampling Procedures, Selection or Development of Instruments, and Interpretation and Evaluation of Research Results. Instructors for this section will include Dr. Burt I. Greene, Head, Department of Education, Eastern Michigan University and Dr. William G. Katzenmeyer and Dr. Russell T. Gregg of the Department of Educational Administration, University of Wisconsin. Instructors will work as a team, and the treatment of the two major topics of measurement and research design will be integrated.

The second two-week section of the Institute (May 8 - 19) will emphasize Data Processing and Educational Research Administration. Sub-topics dealt with will include the following: Data Processing History, Unit Record Equipment and the Computer, Programming, Systems Analysis, The Total Systems Concept, Defining Research Objectives, Planning the Research Project, Funding (proposal development), Assessing Research Facilities and Resources, and the Application of Research Findings to Educational Problems. Instructors for this

section will be Dr. Richard A. Rossmiller, Dr. Donald N. McIsaac and Dr. Russell T. Gregg, all of the Department of Educational Administration, University of Wisconsin. Instructional methods and procedures will be similar to those for the first two-week section.

Excellent facilities for the meetings of the Institute have been scheduled in the new Wisconsin Center for Continuing Education which was designed for adult groups and is located at 702 Langdon Street. Men participants will be housed in Wisconsin Hall, 126 Langdon St., which is located only a few blocks from the Wisconsin Center Building. The rate at Wisconsin Hall will be $24.00 per week, double occupancy of rooms. Meals are not included in the foregoing price but meals may be obtained at Wisconsin Hall at nominal rates if the participant chooses. Women will be housed in Carroll Hall, 620 N. Carroll St. Wisconsin Hall and Carroll Hall are located in close proximity.

Luncheons may be purchased in the Wisconsin Center Building and any meal may be obtained in the near-by Student Union Building, or at a number of restuarants located in the area.

I suggest that persons arriving by plane at Madison Airport take the Airport Limousine to either Wisconsin Hall or Carroll Hall. Limousine fare is only about $1.25 and is cheaper than taxi unless several persons are together.

We are looking forward to welcoming you to Madison and to the University of Wisconsin. We want to do everything we can to make your visit to Madison both pleasant from a personal point of view and profitable from a professional point of view. If the above statements about program and accommodations leave any questions unanswered I hope that you will not hesitate to write to me.

We'll look forward to making your acquaintance at 8:30 A.M. on Monday, March 13 in Room 138 of the Wisconsin Center Building, 702 Langdon Street.

Russell T. Gregg
Professor of Educational Administration
and Institute Director
502 State Street
Madison, Wisconsin 53706
Telephone 262-3106, Area Code 608.

INFORMATION FOR PARTICIPANTS IN THE RESEARCH TRAINING INSTITUTE
FOR STATE DEPARTMENT OF EDUCATION PERSONNEL,
SECOND TWO-WEEK SESSION

Department of Educational Administration
University of Wisconsin

Institute Schedule:

The regular Institute schedule is as follows:

8:30 - 9:45 Group Instruction
9:45 - 10:30 Recess
10:30 - 11:45 Group Instruction

Afternoons:

1:30 - 4:00 Laboratory Work or Group Instruction
(Note: Occasionally a program with a visiting lecturer will be scheduled from 3:00 - 4:30 in the afternoon.)

Textbooks for the Institute (At University Book Store)

First Session, March 13 - 24, 1967 --

1. Basic Statistical Method by Downie and Heath
2. Workbook to accompany above text
3. Iowa Test of Basic Skills
4. Technical Manual for Iowa Test of Basic Skills
5. Teacher's Manual for Iowa Test of Basic Skills

Second Session, May 8 - 19, 1967 --

1. Man Machine Systems in Education by Loughary
2. Introduction to Fortran by McCracken
3. How to Prepare a Research Proposal by Krathwohl

To obtain the books, go to the Information Booth (basement) of the University Book Store, 702 State Street. The cost for the books for the First Session is $12.20 and the cost for those for the Second Session is $8.95. In addition to the above books, a copy of Program Evaluation and Review Technique: Applications in Education will be given to each participant.

Parking

Arrangements for parking cars in Lot #52, Corner of Johnson and Frances Streets, can be made by going to Room 203 Service Bldg., 1217 University Avenue (Office hours: 7:45-11:45 a.m. and 12:30-4:30 p.m.). Fee for parking in Lot #52 is $1.00 per week. Upon payment of fee you will be given a parking sticker to place on the car.

Meals:

Individual meals can be purchased in the Wisconsin Center Building (luncheon only), the Student Memorial Union (just west of the Center Building), at Wisconsin Hall, and at restaurants. Meals at Wisconsin Hall are priced as follows: Breakfast, 75¢; Luncheon, $1.25; and Dinner, $1.75 except "Steak night" (Wednesday) when the price is $2.50. Meals can be purchased by the week at Wisconsin Hall at a price of $21.00 a week.

INFORMATION FOR PARTICIPANTS IN THE RESEARCH TRAINING INSTITUTE
FOR STATE DEPARTMENT OF EDUCATION PERSONNEL,
SECOND TWO-WEEK SESSION

Department of Educational Administration
University of Wisconsin

Nature of Institute Program

The Research Training Institute was planned as a four-week training program offered in two, two-week sessions in order to enable participants to return to their jobs for a period of six weeks between the two sessions. The first session was held March 13 - 24, and the second session will be held May 8 - 19, 1967. In general, the program will run from 8:30 in the morning to about 4:30 o'clock in the afternoon each day. Also a few special programs may be scheduled during the evening hours. In general, the Institute Schedule will be as follows:

Mornings:

8:30 - 9:45	Group Instruction
9:45 - 10:30	Recess
10:30 - 11:45	Group Instruction

Afternoons:

1:30 - 4:00	Laboratory Work or Group Instruction (Note: Occasionally a program with a visiting lecturer will be scheduled from 3:00 - 4:30 in the afternoon.)

The Institute will close at noon on May 19, 1967. It may be necessary to schedule an evening meeting during the session to make possible the early closing on May 19.

The major purpose of the Research Training Institute is to improve research knowledge and skills and to stimulate research interests on the part of selected personnel of State Departments of Education. Today, it is imperative that the leadership activity of state department personnel be oriented increasingly to educational evaluation and research. Consequently, the Institute emphasized (1) measurement in educational research and (2) research design and methodology during the first session and will emphasize (3) automatic data processing and (4) research administration during the second session. Group instruction will be stressed in the mornings and individual and small-group laboratory work, as well as group instruction, in the afternoons. In the laboratory sessions, participants will be encouraged and assisted to apply research concepts and procedures to the on-the-job problems with which they deal in their work as consultants and researchers in State Departments of Education.

During the second two-week session of the Institute (May 8 - 19) the general topics of Automatic Data Processing and Educational Research Administration will be treated. Sub-topics will include the following: Data Processing History, Computer Programming and Operation, Systems Analysis, The Total Systems Concept, Defining Research Objectives, Planning the Research Project, Proposal

Development, Funding, Assessing Research Facilities and Resources, and the Application of Research Findings to Educational Problems. Instructors for the session will be Dr. Richard A. Rossmiller, Dr. Donald N. McIsaac and Dr. Russell T. Gregg, of the Department of Educational Administration, University of Wisconsin.

Institute Facilities and Living Accommodations

Excellent facilities for the meetings of the Institute will be available in the Wisconsin Center for Continuing Education which was designed for adult groups and located at 702 Langdon Street. Men participants can be housed in Wisconsin Hall dormitory, 126 Langdon St., which is a new private dormitory located only a few blocks from the Wisconsin Center Building. The rate at Wisconsin Hall will be $24.00 per week, double occupancy of rooms. Meals are not included in the foregoing price but meals may be obtained at Wisconsin Hall at nominal rates if the participant chooses. Women will be housed in Carroll Hall, also a new private dormitory located at 620 N. Carroll Street. Wisconsin Hall and Carroll Hall are located in close proximity.

Textbooks for the Institute

Textbooks for the second session, May 8 - 19, 1967, are listed below:

1. Man Machine Systems in Education by Loughary (Harper and Row)
2. A Guide to Fortran Programming by McCracken (John Wiley and Sons)
3. How to Prepare a Research Proposal by Krathwohl (Syracuse University Bookstore)

To obtain the books on the University of Wisconsin campus, go to the Information Booth (basement) of the University Book Store, 702 State Street. The cost of the books for the Second Session is $8.95. In addition to the above books, a copy of Program Evaluation and Review Technique: Applications in Education will be given to each participant.

Parking

Arrangement for parking cars in Lot #52, Corner of Johnson and Frances Streets, can be made by going to Room 203 Service Bldg., 1217 University Avenue (Office hours: 7:45-11:45 a.m. and 12:30-4:30 p.m.). Fee for parking in Lot #52 is $1.00 per week. Upon payment of fee you will be given a parking sticker to place on the car.

Meals:

Individual meals can be purchased at reasonable prices in the Wisconsin Center Building (luncheon only), the Student Memorial Union (just west of the Wisconsin Center Building), at Wisconsin Hall, and at nearby restaurants. Meals at Wisconsin Hall are priced as follows: Breakfast, .75¢; Luncheon, $1.25; and Dinner, $1.75 except "Steak night" (Wednesday) when the price is $2.50.

Travel and Per Diem Allowances

1. Those participants who traveled to and from Madison by plane for the first session of the Institute and who do so for the second session, will be paid the same travel allowance for the second session as they were paid for the first session. Otherwise, a new contract would have to be written and the present one cancelled.

2. If a participant travels alone (with no other participant) by automobile he will be paid mileage at the rate of 8 cents a mile, using AAA mileage figures.

3. If two or more participants travel in the same automobile, each participant will be paid a travel allowance equivalent to tourist plane fare (tax exempt) for a round trip between the capital of his state and Madison. (Information concerning the amount of this fare will be provided by Koepke Travel Agency, Madison).

4. Travel allowance and 7 days of per diem ($112) will be paid to each participant at the end of the first week of the second session. Additional per diem at $16 will be paid at the end of the second week to each participant who has been in full-time attendance, up to a total of 13 days for the session (10 days for State of Wisconsin participants).

5. It is suggested that persons arriving by plane at Madison Airport take the Airport Limousine to either Wisconsin Hall or Carroll Hall dormitories. Limousine fare is cheaper than taxi fare unless serveral persons are traveling together.

Write for Further Information

If the above statements about program, accommodations, allowances, etc., leave any of your questions unanswered, do not hesitate to write to: Russell T. Gregg, Director, Research Training Institute, University of Wisconsin, 502 State Street, Madison, Wisconsin 53706.

cjr4/11/57

APPENDIX B

Lists of Participants Who Attended the Research Training Institute

PARTICIPANTS IN
RESEARCH TRAINING INSTITUTE FOR STATE DEPARTMENT OF EDUCATION PERSONNEL
(First Two-Week Session)
Department of Educational Administration
University of Wisconsin
March, 1967

1. Barnes, Edward Glen
Coordinator, Measurement & Evaluation
Apt. Q-2 4015 Covington Hwy., Decatur, GEORGIA 30032

2. Bies, Alvin
Assist. Director of Public Instruction
120 W. Pleasant Dr., Pierre, SOUTH DAKOTA 57501

3. Bowman, Harry Leon
Director, Research & Statistical Services Division
1563 Camelot Circle, Tucker, GEORGIA 30084

4. Bratton, Charles Laverne
Director, Div. of Computer Services
1036 Navajo Trail, Frankfort, KENTUCKY 40601

5. Carson, William Edgar, Jr.
Supervisor of Research
3414 Covenant Road, Columbia, SOUTH CAROLINA 29204

6. Corder, W. Owens
Supervisor, Special Education
508 Winston Road, Columbia, SOUTH CAROLINA

7. Dittenhafer, Clarence Albert, Jr.
Educational Research Associate
2825 Grandview Avenue, York, PENNSYLVANIA 17404

8. Dunlap, James M.
Supervisor of Testing
2213 Lash Avenue, Raleigh, NORTH CAROLINA 27607

9. Edgar, William J.
Director of Curriculum
3305-75th, Urbandale, IOWA

10. Glasrud, George R.
Administrator, Educational Information Center
1902 Sheridan Drive, Madison, WISCONSIN 53704

11. Guess, Arnold F.
Dir., Division of Statistical Services
508 Mohegan Tr., Frankfort, KENTUCKY 40601

12. Hennis, William McKinley
Supervisor, Title I Evaluation
928 Hillview Street, Cary, NORTH CAROLINA 27511

13. Himley, Oliver Thomas
Consultant - Elementary Education
6620 Timberline Dr., Des Moines, IOWA 50313

14. Kohli, Paul Eugene
Assistant State Supervisor
208 W. Cooke Rd.,Columbus, OHIO 43214

15. Larson, Norman L.
Supervisor, School Reorganization
R.R. #1 - Box 332, McFarland, WISCONSIN 53558

16. Little, Robert David
School Library Supervisor
4817 Sheboygan Apt. 709, Madison, WISCONSIN 53705

17. Marrah, John Andrew
Education Consultant, Research Division
107 W. Brighton Rd., Columbus, OHIO 43202

18. McInerney, Beatrice (Mrs.)
Research Associate, Asst. Dir. of Ford Project
712 Towne House, Harrisburg, PENNSYLVANIA

19. Pickard, H. Stuart
Dir., Develop., Evalua. Planning & Development
62 Myrtle Street, Somersworth, NEW HAMPSHIRE

20. Pinkowski, Francis Stanley
Director of Program Planning
Box 73, Lawrenceville, NEW JERSEY 08648

21. Rodman, Lond Durfee
Supervisor of Secondary Schools
5013 LaCrosse Lane, Madison, WISCONSIN

22. Rush, George Franklin, Jr.
Assist. Dir., Division of Statistical Services
333 E. Fourth Street, Frankfort, KENTUCKY 40601

23. Sanford, Grady E.
Project Supervisor
1728 Omarest Dr., Columbia, SOUTH CAROLINA

24. Wager, Roy H.
Assistant in Secondary Education
608 Fay Ann Drive, Blackwood, NEW JERSEY

25. Wentland, Clarence R.
Supervisor, Research Information Systems
4330 Herrick Lane, Madison, WISCONSIN 53711

26. Wiegan, Floyd E.
Supervisory-Consultative Services
4802 Cottage Grove Rd., Madison, WISCONSIN

27. Wolvek, Joseph
Consultant, Hearing Conservation Services
3800 Cottage Grove Ave., Des Moines, IOWA 50311

28. Yates, Frank Hubert, Jr.
Dir. of Research, Div. of Finance & Admin. Serv.
2715 Noonan Drive, Nashville, TENNESSEE 37206

PARTICIPANTS IN
RESEARCH TRAINING INSTITUTE FOR STATE DEPARTMENT OF EDUCATION PERSONNEL
(Second Two-Week Session)
Department of Educational Administration
University of Wisconsin
May, 1967

1. Barnes, Edward Glen
   Coordinator, Measurement & Evaluation
   State Department of Education
   Atlanta, Georgia 30334

2. Bies, Alvin
   Assistant Director, Statistical Services
   State Department of Public Instruction
   Pierre, South Dakota 57501

3. Bowman, Harry Leon
   Director, Research & Statistical Services
   State Department of Education
   Atlanta, Georgia 30334

4. Bowman, W. E.
   Supervisor, Secondary Schools
   State Department of Public Instruction
   Madison, Wisconsin 57302

5. Bratton, Charles Laverne
   Director, Division of Computer Services
   State Department of Education
   Frankfort, Kentucky 40601

6. Buehrig, Eleanore (Miss)
   Curriculum Consultant
   Illinois State Department of Public Instruction
   1012 Main Street
   Alton, Illinois 62002

7. Carson, William Edgar, Jr.
   Supervisor of Research
   State Department of Education
   Columbia, South Carolina 29201

8. Corder, W. Owens
   Supervisor, Special Education
   State Department of Education
   Columbia, South Carolina 29201

9. Dittenhafer, Clarence Albert, Jr.
   Educational Research Associate
   State Department of Education
   Harrisburg, Pennsylvania 17126

10. Dunlap, James M.
    Supervisor of Testing
    State Department of Public Instruction
    Raleigh, North Carolina 27602

11. Edgar, William J.
    Director of Curriculum
    State Department of Public Instruction
    Des Moines, Iowa 50309

12. Glasrud, George R.
    Administrator, Educational Information Center
    State Department of Public Instruction
    Madison, Wisconsin 53702

13. Hennis, William McKinley
    Supervisor, Title I Evaluation
    State Department of Public Instruction
    Raleigh, North Carolina 27602

14. Himley, Oliver Thomas
    Consultant, Elementary Education
    State Department of Public Instruction
    Des Moines, Iowa 50309

15. Kohli, Paul Eugene
    Assistant Supervisor, Testing Service
    State Department of Education
    Columbus, Ohio 43212

16. Larson, Norman L.
    Supervisor, School Reorganization
    State Department of Public Instruction
    Madison, Wisconsin 53702

17. Little, Robert David
    School Library Supervisor
    State Department of Public Instruction
    Madison, Wisconsin 53702

18. Long, Thomas E.
    Director, Research Coordinating Unit
    State Department of Public Instruction
    Harrisburg, Pennsylvania 17126

19. Marrah, John Andrew
    Education Consultant, Research Division
    State Department of Education
    Columbus, Ohio 43212

20. McInerney, Beatrice (Mrs.)
    Research Associate, Assistant Director of Ford Project
    State Department of Public Instruction
    Harrisburg, Pennsylvania 17126

21. Naber, Richard H.
Foreign Language Supervisor
Illinois State Department of Public Instruction
443 North Williams Drive
Palatine, Illinois 60067

22. Pearce, Clyde C., Jr.
Standards Coordinator
State Department of Education
Atlanta, Georgia 30334

23. Pickard, H. Stuart
Director, Planning, Development and Evaluation
State Department of Education
Concord, New Hampshire 03301

24. Pinkowski, Francis Stanley
Director of Program Planning
State Department of Education
Trenton, New Jersey 08625

25. Rush, George Franklin, Jr.
Assistant Director, Division of Statistical Services
State Department of Education
Frankfort, Kentucky 40601

26. Sanford, Grady E.
Project Supervisor, Title I
State Department of Education
Columbia, South Carolina 29201

27. Shintani, Munro
Coordinator, Special Education Curriculum Development Center
State Department of Public Instruction
Des Moines, Iowa 50309

28. Wager, Roy H.
Assistant in Secondary Education
State Department of Education
Trenton, New Jersey 08625

29. Wentland, Clarence R.
Supervisor, Research Information Systems
State Department of Public Instruction
Madison, Wisconsin 53702

30. Yates, Frank Hubert, Jr.
Director of Research, Division of Finance & Administration
State Department of Education
Nashville, Tennessee 37206

APPENDIX C

Research Training Institute
Program Outline

INSTITUTE PROGRAM--FIRST SESSION

FIRST WEEK

Monday, March 13, 1967

Welcome, Introductions, Housekeeping Details
Introduction to Content of Instruction
Nature and Purpose of Statistics
Descriptive and Inferential Statistics
Presenting Information Graphically: Frequency Distributions

Tuesday, March 14, 1967

Grouped and Ungrouped Data
Class Intervals
Boundaries or Limits
Percentiles, Deciles, and Quartiles
Measures of Central Tendency
When to Use Mean and Median

Wednesday, March 15, 1967

Measures of Dispersion
Quartile Deviation for Grouped and Ungrouped Data
Standard Deviation for Grouped and Ungrouped Data

Thursday, March 16, 1967

Normal Curve, What Is It, How Obtained
Areas Under Curve
Standard Scores
Levels of Measurement--Nominal, Ordinal, Interval, Ratio
Special Lecture--Dr. Herbert J. Klausmeier

Friday, March 17, 1967

Concept of Correlation
Rank Order Correlation
Product Moment Correlation

SECOND WEEK

Monday, March 20, 1967

Probability
Samples and Populations
Special Lecture--Dr. J. Kenneth Little

Tuesday, March 21, 1967

Tests of Significance
Differences between Means
Differences between Proportions
Demonstration of Multimedia Laboratory--Mr. Gerald F. McVey

Wednesday, March 22, 1967

X^2
Special Lecture--Mr. Archie A. Buckmiller

Thursday, March 23, 1967

Analysis of Variance

Friday, March 24, 1967

Analysis of Co-Variance
Trainee Reaction to Evaluation Questionnaire

INSTITUTE PROGRAM--SECOND SESSION

FIRST WEEK

Monday, May 8, 1967

Greetings, Introductions, Housekeeping Details
Introduction to Data Processing
Groups at Computer Center and at Classroom alternately
for Introduction and Orientation

Tuesday, May 9, 1967

The Development of Proposals
Fortran, Input and Output

Wednesday, May 10, 1967

Systems Theory
Fortran, Sort Program
Group work on research proposals and programming
Special Lecture--Dr. Max R. Goodson

Thursday, May 11, 1967

System Theory
Fortran, Correlation Program
Individual & Group Lab Work (Computer Center)

Friday, May 12, 1967

Fortran, Correlation Program
System Theory (Social System)
Programming Work (Computer Center)
Research Proposal Development

SECOND WEEK

Monday, May 15, 1967

Introduction to PERT
PERT Applications
Individual and Group Work, Programming (Computer Center)
Special Lecture--Dr. John Guy Fowlkes

Tuesday, May 16, 1967

PERT Application to Problems
Individual and Group Work, Research Proposals
Special Lecture--Mr. William C. Kahl

Wednesday, May 17, 1967

Input & Output Measures in Education
Algorithm For Scheduling
Individual & Group Work on Programming (Computer Center)
Special Lecture--Dr. Vernon F. Haubrich

Thursday, May 18, 1967

Discussion of Research Proposals of Each Small Group
Learning Materials for Minority Groups
Georgia Quality Measurement Project (Georgia)

Friday, May 19, 1967

Concluding Discussion of Programming
Output Units and Cost-Benefit Analysis
Evaluation of Institute by Participants
Closing Comments--Trainees and Staff

APPENDIX D

Trainee Responses to Evaluation Instruments

RESEARCH TRAINING INSTITUTE FOR
STATE DEPARTMENT OF EDUCATION PERSONNEL

Department of Educational Administration
University of Wisconsin

Evaluation Questionnaire - First Session

We would like to have your frank evaluation of the first two-week session of the Institute. Your reactions to the following items not only will provide data for evaluating the present session but will be of value in planning the second session of the Institute. It is not necessary for you to put your name on this evaluation instrument but, if you want to, we would appreciate your doing so. Please respond to each item.

1. Did you live in the dormitory? Yes 22 No 6.

2. Were your living accommodations satisfactory?
   Excellent 6 ; Very Good 14 ; Fair 8 ; Poor 0 ; Very Poor 0.

   (Note: I lived in the dormitory 24 ; a motel 4).

3. Please state the major advantage of living in the type of accommodation you had.
   1. The interaction with other participants
   2. Convenient to Wisconsin Center, Downtown area, etc.

4. Please state the major disadvantage of living in the type of accommodation you had.
   1. Lack of privacy
   2. Too many restrictions (undergraduate restrictions)

5. During the second session of the Institute do you plan to stay in the dormitory?

   Yes 17; No 9. Undecided 2 .

6. How do you rate this session of the Institute with respect to the extent to which the following objectives have been realized by you:

   A. Increase in knowledge of statistics and their applications:

      Excellent 11; Good 11; Fair 4 ; Poor 2 ; Very Poor 0 .

   Comment:
   1. Lack of background before coming to Institute was a problem
   2. Good instruction
   3. Good review

   B. Increase in knowledge of research design and techniques:

      Excellent 0; Good 3; Fair 14 ; Poor 9 ; Very Poor 2 .

   Comment:
   1. Not covered; not enough emphasis placed on topic
   2. Design taught "incidental" to statistics

C. Increase in knowledge of educational measurement:

Excellent 3 ; Good 11 ; Fair 7; Poor 6 ; Very Poor 1.

Comment: 1. Either not covered or not enough emphasis on topic
2. Too elementary level of instruction

D. Opportunity for exchange of ideas with other participants:

Excellent 9 ; Good 17 ; Fair 1 ; Poor 1 ; Very Poor 0 .

Comment: 1. Good interaction among groups both during and after hours
2. Dorm experience was good for this objective

7. To what extent, if any, did you experience the following difficulties:

A. Lack of background knowledge in statistics:

Much 3 ; Some 15 ; None 10.

B. Lack of background knowledge in research design:

Much 6 ; Some 12 ; None 10.

C. Lack of background knowledge in data processing:

Much 7 ; Some 11 ; None 10.

8. How do you rate the quality of instruction:

A. Relating to educational statistics

Excellent 19 ; Good 8 ; Fair 1 ; Poor 0 ; Very Poor 0 .

Please Comment: 1. Instruction was very good. The two instructors made an excellent team.
2. Much concern for the proper design and the appropriate statistic.

B. Relating to Educational measurement:

Excellent 6 ; Good 14 ; Fair 5 ; Poor 1 ; Very Poor 0 .

Please Comment: 1. Not enough emphasis on this topic.
2. Not covered or not enough time devoted to topic.

C. Relating to data processing:

Excellent 16 ; Good 12 ; Fair 0 ; Poor 1 ; Very Poor 0 .

Please Comment: 1. It was just an introduction to data processing.
2. Students should learn by doing when possible.

9. Of what value were the lectures and discussions by outside persons (such as Klausmeier, Little, etc.):

Great 4 ; Substantial 19 ; Slight 5 ; None 0 .

Please Comment:
1. Very good activity. Should be continued and even expanded.
2. A few felt it was of slight value and time could have been better spent.

10. How do you rate the administration of the Institute?

Excellent 14 ; Good 11 ; Fair 3 ; Poor 0 ; Very Poor 0 .

Please Comment:
1. Generally a well organized and well run Institute.
2. More and better pre-planning by both instructors and director.

11. How do you rate the overall effectiveness of the Institute?

Excellent 6 ; Good 21 ; Fair 1 ; Poor 0 ; Very Poor 0 .

Please Comment:
1. Felt the Institute to be very profitable.
2. Some suggested dividing group: sometimes by ability and other times for small group discussions

12. Did the Institute fail to provide some learning experiences which you expected and wanted? Please explain what they were.

1. More knowledge of research design and data gathering techniques.
2. Provisions should be made for more practical applications of research skills learned.
3. Some participants wanted information on how to develop and how to fund federal projects.

13. What, if any, were notable strengths of the Institute?

1. The high quality of instruction (and instructors). Fine rapport was established between instructors and the group.
2. The interaction among the participants as well as between participants and instructors.
3. Flexibility of program.
4. Well planned institute.

14. What, if any, were notable weaknesses of the Institute?

1. The group was too diverse in ability and background to be kept in one group for instruction.
2. Too much emphasis on statistics and not enough on research design.
3. The late afternoon sessions should have been better organized.
4. Lack of time.

15. Please make suggestions for the improvement of the second session of the Institute.

1. More problem solving experiences and actual participation by trainees.
2. Make late afternoon sessions more productive through better planning
3. More small group discussions, although these are difficult to handle

RESEARCH TRAINING INSTITUTE FOR
STATE DEPARTMENT OF EDUCATION PERSONNEL

Department of Educational Administration
University of Wisconsin

Evaluation Ouestionnaire - Second Session

We would like to have your frank evaluation of the second two-week session of the Institute. Your reactions to the following items not only will provide data for evaluating the present session but should be of value in planning future institutes. It is not necessary for you to sign your name to this evaluation instrument but, if you are willing, we would appreciate your doing so. Please respond to each item, and we will will appreciate very much your comments.

1. Did you live in a dormitory? Yes 22 No 6; in a motel? Yes 6.

2. Were your living accommodations satisfactory?

   Excellent 7; Very Good 13; Fair 8; Poor __; Very Poor__.

3. Please state advantages of living in the type of accommodation you had.

   1. Convenience to Wis. Center, University and downtown area.
   2. Promoted interaction with other participants in the institute.

4. Please state disadvantages of living in the type of accommodation you had.

   1. Lack of privacy.
   2. Living with undergraduates and undergraduate restrictions.

5. How do you rate this session of the Institute with respect to the extent to which the following objectives have been realized by you?

   A. Increase in knowledge of computer programming:

      Excellent 7; Good 14; Fair 5; Poor 2; Very Poor 1.

      Comment:
      1. Instruction was too advanced for beginners, much went over their heads.
      2. Most members were well satisfied with knowledge gained in computer programming.

   B. Increase in knowledge of use of the computer:

      Excellent 11; Good 14; Fair 1; Poor 2; Very Poor 1.

      Comment:
      1. Actual use of the computer was excellent experience and facilitated learning.
      2. Potential of computer in education is impressive.

C. Increase in knowledge of PERT applications to educational projects:

Excellent 6 ; Good 13 ; Fair 8 ; Poor 2 ; Very Poor 0 .

Comment: 1. A number of participants were already familiar with PERT.
2. Material covered provided a good background.

D. Increase in knowledge of systems analysis:

Excellent 4 ; Good 13 ; Fair 8 ; Poor 3 ; Very Poor 1.

Comment: 1. This was repetitious for a number of participants.
2. Most participants did not comment.

E. Increase in knowledge of research proposal development:

Excellent 6 ; Good 16 ; Fair 4 ; Poor 2 ; Very Poor 1.

Comment: 1. Most participants did not comment.
2. Several said it was repetitious while an equal number felt it was valuable.

F. Opportunity for exchange of ideas with other participants:

Excellent 21 ; Good 7 ; Fair 1 ; Poor ___ ; Very Poor __.

Comment: 1. Very good interaction during informal sessions.
2. More exchange of ideas during regular sessions could have been provided.

6. To what extent, if any, did you experience the following difficulties?

A. Lack of background knowledge of computer technology:

Much 14 ; Some 10 ; None 5 .

B. Lack of background knowledge of PERT and systems analysis:

Much 9 ; Some 12 ; None 3 .

C. Lack of background knowledge about research proposals:

Much 1 ; Some 16 ; None 12 .

7. How do you rate the quality of instruction of the Institute?

A. Instruction relating to computer technology:

Excellent 8 ; Good 16 ; Fair 4 ; Poor 1 ; Very Poor __.

Please comment: 1. Instruction was "over the heads" of some participants. Class should have been sectioned.
2. Good instruction by capable people.

B. Instruction relating to PERT applications and systems analysis:

Excellent 6 ; Good 16 ; Fair 6 ; Poor 1 ; Very Poor __.

Please Comment:
1. More and better use of A.V. equipment would improve understanding of possible applications of PERT.
2. Good coverage of the subject - good instruction.

C. Instruction relating to development and writing of research proposals:

Excellent 6 ; Good 14 ; Fair 9 ; Poor___; Very Poor___.

Please Comment:
1. Good instruction; excellent points, examples, and materials.
2. More opportunity to critique proposals would have been valuable.

8. Of what value were the lectures and discussions by outside persons (such as Goodson, Fowlkes, etc.):

Great 9 ; Substantial 15 ; Slight 3 ; None 1 .

Please Comment:
1. Very beneficial part of the program.
2. Excellent choice of speakers.

9. How do you rate the administration of the Institute?

Excellent 8 ; Good 18 ; Fair 2 ; Poor __; Very Poor 1 .

Please Comment:
1. Institute was well planned and ran smoothly.
2. Classroom should have been closer to computer center.

10. How do you rate the facilities utilized by the Institute?

Excellent 22 ; Good 7 ; Fair -- ; Poor ___; Very Poor___.

Please Comment:
1. Excellent facilities, both classroom and computer center.
2. Too far to walk from the classroom building to the computer center.

11. How do you rate the overall effectiveness of the Institute?

Excellent 8 ; Good 17 ; Fair 3 ; Poor ___; Very Poor 1 .

Please Comment:
1. The institute fulfilled its objective by familiarizing participants with the selected topics.
2. Future experiences of participants will determine its effectiveness.
3. The range of backgrounds of participants was not adequately recognized. This served to hinder everyone.
4. Interaction with members of other state departments was very valuable.

12. Did the Institute fail to provide some learning experiences which you expected and wanted? Please explain what they were.

1. More discussion of computer applications.
2. Smaller groups arranged according to ability would have enhanced learning.
3. More time was needed to teach computer programming.
4. More time was needed to become proficient in proposal writing.
5. More specific examples of systems analysis was needed.

13. What, if any, were notable strengths of the Institute?

1. Excellent quality of instruction and instructors.
2. Excellent facilities.
3. Guest speakers.
4. Planning and administration of the Institute.
5. Contacts with members of other state departments.

14. What, if any, were notable weaknesses of the Institute?

1. Lack of adequate consideration for differing backgrounds.
2. The instructors went too fast the first few days.
3. Instructors should be available for individual help to a greater extent.
4. Too much was attempted in the time allotted.

APPENDIX E

Records of Travel and Per Diem Allowances for Trainees

RESEARCH TRAINING INSTITUTE FOR STATE DEPARTMENT OF EDUCATION PERSONNEL
Department of Educational Administration University of Wisconsin
March 16, 1967

NAME	HOME ADDRESS	Social Security Number	Per Diem (7 days @$16)	Travel Allowance	Total Amount
Barnes, Edward G.	Apt. Q-2 4015 Covington Hwy Decatur, GEORGIA 30032	234-40-0742	$112.00	$138.08	$250.08
Bies, Alvin	120 W. Pleasant Drive Pierre, SOUTH DAKOTA 57501	504-10-4834	$112.00	$ 90.26	$202.26
Bowman, Harry L.	1563 Camelot Circle Tucker, GEORGIA 30084	409-60-8385	$112.00	$138.08	$250.08
Bratton, Charles L.	1036 Navajo Trail Frankfort, KENTUCKY 40601	312-32-8369	$112.00	$ 80.16	$192.16
Carson, William E., Jr.	3414 Covenant Road Columbia, SOUTH CAROLINA 29204	726-09-2871	$112.00	$ 98.80	$210.80
Corder, W. Owens	508 Winston Road Columbia, SOUTH CAROLINA	720-12-0862	$112.00	$144.60	$256.60
Dittenhafer, Clarence A.,Jr.	2825 Grandview Avenue New York, PA. 17404	195-26-8389	$112.00	$ 91.15	$203.15
Dunlap, James M.	2213 Lash Avenue Raleigh, NORTH CAROLINA 27607	240-32-6147	$112.00	$107.20	$219.20
Edgar, William J.	3305-74th Urbandale, IOWA	478-24-5185	$112.00	$ 46.40	$158.40
Guess, Arnold F.	508 Mohegan Tr. Frankfort, KENTUCKY 40601	401-28-7191	$112.00	$ 80.16	$192.16

NAME	HOME ADDRESS	Social Security Number	Per Diem (7 days @$16)	Travel Allowance	Total Amount
Hennis, William M.	928 Hillview St. Cary, NORTH CAROLINA 27511	237-42-2381	$112.00	$108.35	$220.35
Himley, Oliver T.	6620 Timberline Drive Des Moines, IOWA 50313	482-28-1344	$112.00	$ 46.40	$158.40
Kohli, Paul E.	208 W. Cooke Road Columbus, OHIO 43214	296-12-6921	$112.00	$ 69.70	$181.70
Marrah, John A.	107 W. Brighton Road Columbus, OHIO 43202	280-26-2997	$112.00	$ 76.05	$188.05
McInerney, Beatrice (Mrs.)	712 Towne House Harrisburg, PA.	443-20-1473	$112.00	$132.00	$244.00
Pickard, H. Stuart	62 Myrtle Street Somersworth, NEW HAMPSHIRE	028-22-3744	$112.00	$152.05	$264.05
Pinkowski, Francis S.	Box 73 Lawrenceville, NEW JERSEY 08648	164-22-5338	$112.00	$123.20	$235.20
Rush, George F. Jr.	333 E. Fourth Street Frankfort, KENTUCKY 40601	406-50-4684	$112.00	$ 80.16	$192.16
Sanford, Grady E.	1728 Omarest Drive Columbia, SOUTH CAROLINA	249-48-5802	$112.00	$140.75	$252.75
Wager, Roy H.	608 Fay Ann Drive Blackwood, NEW JERSEY	149-14-6667	$112.00	$109.30	$221.30
Wolvek, Joseph	3800 Cottage Grove Ave. Des Moines, IOWA 50311	559-30-4071	$112.00	$ 46.40	$158.40
Yates, Frank J., Jr.	2715 Noonan Drive Nashville, TENNESSEE 37206	410-30-1021	$112.00	$ 84.90	$196.90

NAME	HOME ADDRESS	Social Security Number	Per Diem (7 days @$16)	Travel Allowance	Total Amount
Glasrud, George R.	1902 Sheridan Drive Madison, WISCONSIN 53704	398-01-6424	$112.00	None	$112.00
Larson, Norman L.	R.R. #1 - Box 332 McFarland, WISCONSIN 53558	395-09-5046	$112.00	None	$112.00
Little, Robert D.	4817 Sheboygan Apt. 709 Madison, WISCONSIN 53705	398-34-1178	$112.00	None	$112.00
Rodman, Lond D.	5013 LaCrosse Lane Madison, WISCONSIN	392-72-2276	$112.00	None	$112.00
Wentland, Clarence R.	4330 Herrick Lane Madison, WISCONSIN 53711	397-38-9970	$112.00	None	$112.00
Wiegan, Floyd E.	4802 Cottage Grove Road Madison, WISCONSIN	389-22-7904	$112.00	None	$112.00

cjr3/16/67

RESEARCH TRAINING INSTITUTE FOR STATE DEPARTMENT OF EDUCATION PERSONNEL

Department of Educational Administration University of Wisconsin

March 21, 1967

NAME	HOME ADDRESS	Social Security Number	Per Diem (6 days @ $16)	Travel Allowance	Total Amount
Barnes, Edward G.	Apt. Q-2 4015 Covington Hwy. Decatur, GEORGIA 30032	234-40-0742	$96.00	None	$96.00
Bies, Alvin	120 W. Pleasant Drive Pierre, SOUTH DAKOTA 57501	504-10-4834	$96.00	None	$96.00
Bowman, Harry L.	1563 Camelot Circle Tucker, GEORGIA 30084	409-60-8385	$96.00	None	$96.00
Bratton, Charles L.	1036 Navajo Trail Frankfort, KENTUCKY 40601	312-32-8069	$96.00	None	$96.00
Carson, William E., Jr.	3414 Covenant Road Columbia, SOUTH CAROLINA 29204	726-09-2871	$96.00	None	$96.00
Corder, W. Owens	508 Winston Road Columbia, SOUTH CAROLINA	720-12-0862	$96.00	None	$96.00
Dittenhafer, Clarence A.,Jr.	2825 Grandview Avenue New York, PA. 17404	195-26-8389	$96.00	None	$96.00
Dunlap, James M.	2213 Lash Avenue Raleigh, NORTH CAROLINA 27607	240-32-6147	$96.00	None	$96.00
Edgar, William J.	3305-74th Urbandale, IOWA	478-24-5185	$96.00	None	$96.00
Guess, Arnold F.	508 Mohegan Tr. Frankfort, KENTUCKY 40601	401-28-7191	$96.00	None	$96.00

NAME	HOME ADDRESS	Social Security Number	Per Diem (6 days @$16)	Travel Allowance	Total Amount
Hennis, William M.	928 Hillview St. Cary, NORTH CAROLINA 27511	237-42-2381	$96.00	None	$96.00
Himley, Oliver T.	6620 Timberline Drive Des Moines, IOWA 50313	482-28-1344	$96.00	None	$96.00
Kohli, Paul E.	208 W. Cooke Road Columbus, OHIO 43214	296-12-6921	$96.00	None	$96.00
Marrah, John A.	107 W. Brighton Road Columbus, OHIO 43202	280-26-2997	$96.00	None	$96.00
McInerney, Beatrice (Mrs.)	712 Towne House Harrisburg, PA.	443-20-1473	$96.00	None	$96.00
Pickard, H. Stuart	62 Myrtle Street Somersworth, NEW HAMPSHIRE	028-22-3744	$96.00	None	$96.00
Pinkowski, Francis S.	Box 73 Lawrenceville, NEW JERSEY 08648	164-22-5338	$96.00	None	$96.00
Rush, George F. Jr.	333 E. Fourth Street Frankfort, KENTUCKY 40601	406-50-4684	$96.00	None	$96.00
Sanford, Grady E.	1728 Omarest Drive Columbia, SOUTH CAROLINA	249-48-5802	$96.00	None	$96.00
Wager, Roy H.	608 Fay Ann Drive Blackwood, NEW JERSEY	149-14-6667	$96.00	None	$96.00
Wolvek, Joseph	3800 Cottage Grove Ave. Des Moines, IOWA 50311	559-30-4071	$96.00	None	$96.00
Yates, Frank J., Jr.	2715 Noonan Drive Nashville, TENNESSEE 37206	410-30-1021	$96.00	None	$96.00

NAME	HOME ADDRESS	Social Security Number	Per Diem (3 days @$16)	Travel Allowance	Total Amount
Glasrud, George R.	1902 Sheridan Drive Madison, WISCONSIN 53704	398-01-6424	$48.00	None	$48.00
Larson, Norman L.	R.R. #1 - Box 332 McFarland, WISCONSIN 53558	395-09-5046	$48.00	None	$48.00
Little, Robert D.	4817 Sheboygan Apt. 709 Madison, WISCONSIN 53705	398-34-1178	$48.00	None	$48.00
Rodman, Lond D.	5013 LaCrosse Lane Madison, WISCONSIN	392-72-2276	$48.00	None	$48.00
Wentland, Clarence R.	4330 Herrick Lane Madison, WISCONSIN 53711	397-38-9970	$48.00	None	$48.00
Wiegan, Floyd E.	4802 Cottage Grove Road Madison, WISCONSIN	389-22-7904	$48.00	None	$48.00

cjr3/21/67

RESEARCH TRAINING INSTITUTE FOR STATE DEPARTMENT OF EDUCATION PERSONNEL

Department of Educational Administration, University of Wisconsin

May 10, 1967

NAME	HOME ADDRESS	Social Security Number	Per Diem (7 Days @$16)	Travel Allowance	Total Amount
Barnes, Edward G.	Apt. Q-2 4015 Covington Hwy Decatur, GEORGIA 30032	234-40-0742	$112.00	$138.08	$250.08
Bies, Alvin	120 W. Pleasant Drive Pierre, SOUTH DAKOTA 57501	504-10-4834	$112.00	$100.15	$202.26
Bowman, Harry L.	1563 Camelot Circle Tucker, GEORGIA 30084	409-60-8385	$112.00	$138.08	$250.08
Bratton, Charles L.	1036 Navajo Trail Frankfort, KENTUCKY 40601	312-32-8069	$112.00	$ 80.16	$192.16
Buehrig, Eleanor (Mrs.)	1012 Main Street Alton, ILLINOIS 62002	043-14-1725	$112.00	$ 70.97	$182.97
Carson, William E.,Jr.	3414 Covenant Road Columbia, SOUTH CAROLINA 29204	726-09-2871	$112.00	$ 98.80	$210.80
Corder, W. Owens	408 Winston Road Columbia, SOUTH CAROLINA	720-12-0862	$112.00	$144.60	$256.60
Dittenhafer, Clarence A,Jr.	2825 Grandview Avenue New York, PA. 17404	195-26-8389	$112.00	$ 91.15	$203.15
Dunlap, James M.	2213 Lash Avenue Raleigh, NORTH CAROLINA 27607	240-32-6147	$112.00	$107.20	$219.20
Edgar, William J.	3305-74th Urbandale, IOWA	478-24-5185	$112.00	$46.40	$158.40

NAME	HOME ADDRESS	Social Security Number	Per Diem (7 days @$16)	Travel Allowance	Total Amount
Hennis, William M.	928 Hillview St. Cary,NORTH CAROLINA 27511	237-42-2381	$112.00	$108.35	$220.35
Himley, Oliver T.	6620 Timberline Drive Des Moines, IOWA 50313	482-28-1344	$112.00	$ 46.40	$158.40
Kohli, Paul E.	208 W. Cooke Road Columbus, OHIO 43214	296-12-6921	$112.00	$ 69.70	$181.70
Long, Thomas E.	1833 Crawford Ave. Altoona, PA. 16602	178-24-2922	$112.00	$132.00	$244.00
Marrah, John A.	107 W. Brighton Road Columbus, OHIO 43202	280-26-2997	$112.00	$ 76.05	$188.05
McInerney, Beatrice (Mrs.)	712 Towne House Harrisburg, PA.	443-20-1473	$112.00	$132.00	$244.00
Naber, Richard H.	443 N. Williams Dr. Palatine, ILLINOIS 60067	388-22-3604	$112.00	$ 43.84	$155.84
Pearce, Clyde C., Jr.	Route 3 Monroe, GEORGIA 30655	256-16-1221	$112.00	$138.08	$250.08
Pickard, H. Stuart	62 Myrtle Street Somersworth, NEW HAMPSHIRE	028-22-3744	$112.00	$152.05	$264.05
Pinkowski, Francis S.	Box 73 Lawrenceville,NEW JERSEY 08648	164-22-5338	$112.00	$123.20	$235.20
Rush, George F., Jr.	333 E. Fourth Street Frankfort, KENTUCKY 40601	406-50-4684	$112.00	$ 80.16	$192.16
Sanford, Grady E.	1728 Omarest Drive Columbia,SOUTH CAROLINA	249-48-5802	$112.00	$140.75	$252.75

NAME	HOME ADDRESS	Social Security Number	Per Diem (7 days @$16)	Travel Allowance	Total Amount
Shintani, Munro	3204 Giles St. West Des Moines, IOWA 50265	358-14-4261	$112.00	$ 46.40	$158.40
Wager, Roy H.	608 Fay Ann Drive Blackwood, NEW JERSEY	149-14-6667	$112.00	$109.30	$221.30
Yates, Frank J.,Jr.	2715 Noonan Drive Nashville, TENNESSEE 37206	410-30-1021	$112.00	$ 84.90	$196.90
Bowman, William E.	1022 Friar Lane Madison, WISCONSIN 53711	399-18-1636	$112.00	None	$112.00
Glasrud, George R.	1902 Sheridan Drive Madison, WISCONSIN 53704	398-01-6424	$112.00	None	$112.00
Larson, Norman L.	R.R.#1 - Box 332 McFarland, WISCONSIN 53558	395-09-5046	$112.00	None	$112.00
Little, Robert D.	4817 Sheboygan Apt.709 Madison, WISCONSIN 53705	398-34-1178	$112.00	None	$112.00
Wentland, Clarence R.	4330 Herrick Lane Madison, WISCONSIN 53711	397-38-9970	$112.00	None	$112.00

RESEARCH TRAINING INSTITUTE FOR STATE DEPARTMENT OF EDUCATION PERSONNEL

Department of Educational Administration, University of Wisconsin

May 17, 1967

NAME	HOME ADDRESS	Social Security Number	Per Diem (6 days @$16)	Travel Allowance	Total Amount
Barnes, Edward G.	Apt.Q-2 4015 Covington Hwy Decatur, GEORGIA 30032	234-40-0742	$96.00	None	$96.00
Bies, Alvin	120 W. Pleasant Drive Pierre, SOUTH DAKOTA 57501	504-10-4834	$96.00	"	$96.00
Bowman, Harry L.	1563 Camelot Circle Tucker, GEORGIA 30084	409-60-8385	$96.00	"	$96.00
Bratton, Charles L.	1036 Navajo Trail Frankfort, KENTUCKY 40601	312-32-8069	$96.00	"	$96.00
Buehrig, Eleanor (Mrs.)	1012 Main Street Alton, ILLINOIS 62002	043-14-1725	$96.00	"	$96.00
Carson, William E., Jr.	3414 Covenant Road Columbia, SOUTH CAROLINA 29204	726-09-2871	$96.00	"	$96.00
Corder, W. Owens	508 Winston Road Columbia, SOUTH CAROLINA	720-12-0862	$96.00	"	$96.00
Dittenhafer, Clarence A.,Jr.	2825 Grandview Avenue New York, PA. 17404	195-26-8389	$96.00	"	$96.00
Dunlap, James M.	2213 Lash Avenue Raleigh, NORTH CAROLINA 27607	240-32-6147	$96.00	"	$96.00
Edgar, William J.	3305-74th Urbandale, IOWA	478-24-5185	$96.00	"	$96.00

NAME	HOME ADDRESS	Social Security Number	Per Diem (6 days @$16)	Travel Allowance	Total Amount
Hennis, William M.	928 Hillview St. Cary, NORTH CAROLINA 27511	237-42-2381	$96.00	None	$96.00
Himley, Oliver T.	6620 Timberline Drive Des Moines, IOWA 50313	482-28-1344	$96.00	"	$96.00
Kohli, Paul E.	208 W. Cooke Road Columbus, OHIO 43214	296-12-6921	$96.00	"	$96.00
Long, Thomas E.	1833 Crawford Ave. Altoona, PA. 16602	178-24-2922	$96.00	"	$96.00
Marrah, John A.	107 W. Brighton Road Columbus, OHIO 43202	280-26-2997	$96.00	"	$96.00
McInerney, Beatrice (Mrs.)	712 Towne House Harrisburg, PA.	443-20-1473	$96.00	"	$96.00
Naber, Richard H.	443 N. Williams Dr. Palatine, ILLINOIS 60067	388-22-3604	$96.00	"	$96.00
Pearce, Clyde C. Jr.	Route 3 Monroe, GEORGIA 30655	256-16-1221	$96.00	"	$96.00
Pickard, H. Stuart	62 Myrtle Street Somersworth,NEW HAMPSHIRE	028-22-3744	$96.00	"	$96.00
Pinkowski, Francis S.	Box 73 Lawrenceville,NEW JERSEY 08648	164-22-5338	$96.00	"	$96.00
Rush, George F. Jr.	333 E. Fourth Street Frankfort,KENTUCKY 40601	406-50-4684	$96.00	"	$96.00
Sanford, Grady E.	1728 Omarest Drive Columbia, SOUTH CAROLINA	249-48-5802	$96.00	"	$96.00
Shintani, Munro	3204 Giles St. West Des Moines, IOWA 50265	358-14-4261	$96.00	"	$96.00

NAME	HOME ADDRESS	Social Security Number	Per Diem (6 days @$16)	Travel Allowance	Total Amount
Wager, Roy H.	608 Fay Ann Drive Blackwood, NEW JERSEY	149-14-6667	$96.00	None	$96.00
Yates, Frank J., Jr.	2715 Noonan Drive Nashville,TENNESSEE 37206	410-30-1021	$96.00	"	$96.00
Bowman, William E.	1022 Friar Lane Madison, WISCONSIN 53711	399-18-1636	$48.00	"	$48.00
Glasrud, George R.	1902 Sheridan Drive Madison, WISCONSIN 53704	398-01-6424	$48.00	"	$48.00
Larson, Norman L.	R.R.#1 - Box 332 McFarland, WISCONSIN 53558	395-09-5046	$48.00	"	$48.00
Little, Robert D.	4817 Sheboygan Apt.709 Madison, WISCONSIN 53705	398-34-1178	$48.00	"	$48.00
Wentland, Clarence R.	4330 Herrick Lane Madison, WISCONSIN 53711	397-38-9970	$48.00	"	$48.00